0590



# RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number:  $\frac{10/002,63/8}{\text{Source:}}$ Date Processed by STIC:  $\frac{2/11/2003}{\text{Source:}}$ 

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual-ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
  - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
  - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 01/29/2002



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RAW SEQUENCE LISTING

DATE: 02/11/2003

PATENT APPLICATION: US/10/002,631B

TIME: 10:44:56

Input Set : A:\10002631sequencelisting.txt Output Set: N:\CRF4\02112003\J002631B.raw

3 <110> APPLICANT: Graff, Jonathon M.

Muenster, Matthew

- 6 <120> TITLE OF INVENTION: METHODS TO IDENTIFY SIGNAL SEQUENCES
- 9 <130> FILE REFERENCE: A34943 090495.0243
- 11 <140> CURRENT APPLICATION NUMBER: 10/002,631B
- 12 <141> CURRENT FILING DATE: 2001-10-31
- 14 <150> PRIOR APPLICATION NUMBER: 60/300,309
- 15 <151> PRIOR FILING DATE: 2001-06-21
- 17 <160> NUMBER OF SEQ ID NOS: 324
- 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0

## ERRORED SEQUENCES

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Does Not Comply Corrected Diskette Needed

pp1,3-4 2069 <210> SEO ID NO: 74 2070 <211> LENGTH: 238 2071 <212> TYPE: PRT

2072 <213> ORGANISM: Homo sapiens 2074 <400> SEQUENCE: 74

2075 Cys Cys Phe Val Pro Gly Gln Lys Ile Phe Ala Ala Gln Thr Asp Trp

2077 Leu Gln Glu Gly Leu Leu Val Trp Thr Trp His His Phe Asp Gln Leu 25 20

2079 Val His Pro Cys Tyr Arg Ser His Tyr Ser Ser Val His Leu Ser Tyr

35 40 2081 Trp Thr Val Ser Leu Met Val Pro Leu Leu Trp Ser Pro Phe Val Cys

55 2083 Met Glu Leu Gln Leu Pro Lys Tyr Leu Tyr Ile Leu Leu Arg Lys Asp

70 75 2084 65

2085 Phe Ile Thr Leu Thr Ser Ser Thr Leu Pro Arg Ala Gln Lys Lys Pro

90 85 2087 Cys Leu Leu Trp Tyr Val Gln Leu His Ser Ser Leu Phe Ala Val Glu

105 100

2089 His Phe Phe His Ile Ala Pro Ile Leu Leu Ile Arg Ser Gln Arg Glu

120 2090 115

2091 Cys Phe Phe Ser Ile Leu Glu His Ser Met Thr Trp Lys Glu Met Gln

140 135 130

2093 Leu Asn Gly Thr Leu Glu Tyr Gly Ser Met Gly Leu Ile Ile Leu Glu

155 150

2095 Phe Leu Thr Pro Leu Thr Phe Leu Arg Ser Met Ile Val Ser Glu Leu

170

E--> 2097 Thr Val Arg Arg Met His Leu Phe Val Val Phe Leu Gly Ile Phe Xaa SU P. 3 July 2098 180 185 185 190 MM Applaration

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,631B

DATE: 02/11/2003 TIME: 10:44:56

Input Set : A:\10002631sequencelisting.txt
Output Set: N:\CRF4\02112003\J002631B.raw

2099	Val	His	Phe	Leu	Ile	Arg	Lys	Asn	Trp	Tyr	Leu	Pro	Ala	Pro	Glu	Val
2100			195					200					205			
2101	Ser	Pro	Arg	Asn	Pro	Pro	His	Phe	Arg	Leu	Ile	Ser	Lys	Glu	Gln	Thr
2102		210					215					220				
2103	Pro	Trp	Asp	Ser	Ile	Lys	Leu	Thr	Phe	Glu	Ala	Thr	Gly	Ser		
2104	225	_				230					235					

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/002,631B

DATE: 02/11/2003 TIME: 10:44:57

Input Set : A:\10002631sequencelisting.txt
Output Set: N:\CRF4\02112003\J002631B.raw

#### Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:1; N Pos. 608,682,724,735,743,746,747,753,754,771,782,784,798,800,804 Seq#:1; N Pos. 811,812,819,821,824,825,827,834,837,844,857,859,867,869,876 Seg#:1; N Pos. 878,880,881,883,884 Seq#:2; Xaa Pos. 1,2,3,5,6,8,9,13,16,17,19,20,21,22,24,27,28,29,34,38,43,44 Seq#:2; Xaa Pos. 46,47,50,53,67,92 Seq#:9; N Pos. 545,615,629,650,656,669,726,746,753,755,757 Seq#:10; Xaa Pos. 5,6,8,15,34,38,40,47,52,75 Seq#:13; N Pos. 527,638,682,685,703,734,746,766,805,810,831,832,841,846,849 Seq#:13; N Pos. 856,858,867,888,895,897,900,901,904,910,916,931,932,933,938 Seq#:13; N Pos. 945 Seq#:14; Xaa Pos. 2,4,6,14,15,18,25,28,31,32,37,43,44,57,64,68,84,100,135 Seq#:15; N Pos. 571 Seq#:19; N Pos. 634,662,689,700,710,721,758,783,804,840,859,884,885,889,919 Seg#:20; Xaa Pos. 3,12,14,29,41,48,56,71,73,76,84,93 Seq#:25; N Pos. 582,602 Seq#:26; Xaa Pos. 26,33 Seq#:27; N Pos. 613,651,695,749,757,769,776,785,787,812,818,830,853,874,882 Seq#:27; N Pos. 908,915 Seq#:28; Xaa Pos. 1,3,12,14,20,27,31,33,40,41,44,46,50,53,67,82,93 Seq#:29; N Pos. 611,636,663,720,772,814,823,843,874,876,885,896,908,909,916 Seq#:29; N Pos. 928 Seq#:30; Xaa Pos. 1,8,12,16,19,30,70,87,96,104 Seq#:31; N Pos. 610,628,686,747,781,789,795,821,842,871,893,897,918 Seq#:32; Xaa Pos. 1,8,16,32,40,42,45,56,75,94,100 Seq#:33; N Pos. 596,610,735,740,767,771,786,790,803,805,815,816,817,819,825 Seq#:33; N Pos. 834,835,842,847,848,854,857,858,859,861,863,870,871,875,876 Seg#:33; N Pos. 877,884,889,891,898,908,913,914,915 Seq#:34; Xaa Pos. 1,3,6,9,11,13,14,15,16,18,19,20,21,23,25,27,28,31,33,34 Seg#:34; Xaa Pos. 36,37,41,43,48,49,57,59,103 Seq#:35; N Pos. 596,610,735,740,767,771,786,790,803,805,815,816,817,819,825 Seq#:35; N Pos. 834,835,842,847,848,854,857,858,859,861,863,870,871,875,876 Seq#:35; N Pos. 877,884,889,891,898,908,913,914,915 Seq#:37; N Pos. 586 Seq#:39; N Pos. 634,653,690,696,726,731,744,765,772,780,790,802,832,855,872 Seq#:39; N Pos. 880,895,896 Seq#:40; Xaa Pos. 1,9,15,22,40,45,51,55,57,67,69,81,86 Seg#:41; N Pos. 200,211 Seq#:42; Xaa Pos. 121,125 Seq#:47; N Pos. 7,9,12,14,15,20,21,35,36,37,38,76,103,115,120,121,185,190 Seq#:47; N Pos. 192,198,205,209,237,243,248,260,267,269,272,287,290,297,298 Seq#:47; N Pos. 300,303,305,314,315,316,320,326,331,332,333,341,342,352,353

Seq#:47; N Pos. 359,364,365,368,378,383,385,400,414,440,476,487,497,524,545

Seg#:47; N Pos. 550,590,594

#### VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/002,631B

DATE: 02/11/2003 TIME: 10:44:57

Input Set : A:\10002631sequencelisting.txt
Output Set: N:\CRF4\02112003\J002631B.raw

Seq#:48; Xaa Pos. 2,3,17,24,33,40,52,61,70,71,73,76,77,79,81,83,86,88,90,92 Seq#:48; Xaa Pos. 95,96,97,98,100,101,106,107,108,110,114,116,118,127,128 Seq#:48; Xaa Pos. 131,133,135,155,156,157,169,182,183,188,190,191,192

Seq#:49; N Pos. 191,538 Seq#:50; Xaa Pos. 107

Seq#:51; N Pos. 512,547,555,563,580,614,624,625,630,632,639,650,666,670,671
Seq#:51; N Pos. 672,674,679,680,682,684,685,686,693,697,701,702,705,706,708
Seq#:51; N Pos. 712,713,714,715,720,721,723,726,728,730,731,734,735,737,740



Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

#### VERIFICATION SUMMARY

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PATENT APPLICATION: US/10/002,631B

DATE: 02/11/2003 TIME: 10:44:57

Input Set : A:\10002631sequencelisting.txt
Output Set: N:\CRF4\02112003\J002631B.raw

```
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:600
M:341 Repeated in SeqNo=1
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:540
M:341 Repeated in SeqNo=9
L:263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:480
M:341 Repeated in SeqNo=13
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
M:341 Repeated in SeqNo=14
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:540
L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:600
M:341 Repeated in SeqNo=19
L:550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
M:341 Repeated in SeqNo=20
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:540
M:341 Repeated in SeqNo=25
L:702 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:16
M:341 Repeated in SeqNo=26
L:751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:600
M:341 Repeated in SeqNo=27
L:769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:600
M:341 Repeated in SeqNo=29
L:840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:600
M:341 Repeated in SeqNo=31
L:921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
M:341 Repeated in SeqNo=32
L:981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:540
M:341 Repeated in SeqNo=33
L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
M:341 Repeated in SeqNo=34
L:1060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:540
M:341 Repeated in SeqNo=35
L:1110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:540
L:1166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:600
M:341 Repeated in SeqNo=39
L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
M:341 Repeated in SeqNo=40
L:1237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:180 L:1271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:112
L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
M:341 Repeated in SeqNo=47
```

### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/002,631B

DATE: 02/11/2003 TIME: 10:44:57

Input Set : A:\10002631sequencelisting.txt
Output Set: N:\CRF4\02112003\J002631B.raw

L:1397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0

M:341 Repeated in SeqNo=48

L:2097 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74